AMENDED CLAIMS

[Received by the International Bureau on 08 August 2005 (08.08.2005): new claims 45-63 added, original claims 1-44 unchanged]

- 45. A process for isolating a ginkgolide from a mixture of terpene trilactones (TTLs) that comprises ginkgolide A, ginkgolide J, ginkgolide C, and ginkgolide B comprising:
 - a) exposing the mixture of TTLs to K_2CO_3 in dimethylformamide,
 - b) adding benzyl-bromide to the product of stepa);
 - c) quenching the product of step b) with HCl and extracting with EtOAc and drying with MgSO4; and
 - d) purifying the product of step c) with gradient column chromatography to produce a mixture comprising ginkgolide A and ginkgolide J.
- 46. The process of claim 45, further comprising purifying the ginkgolide A by recrystallizing from EtOH/H20.
- 47. The process of claim 45, further comprising purifying the ginkgolide J by recrystallizing from $EtOH/H_2O$.
- 48. A composition comprising ginkgolide J prepared by the method of claim 47.
- 49. A composition comprising ginkgolide J and ginkgolide
 A prepared by the method of claim 45.
- 50. A process for separating a terpene trilactone from Ginkgo biloba plant material or an extract of Ginkgo biloba comprising a mixture of terpene trilactones,

the process comprising the steps of:

- a) subjecting the Ginkgo biloba material or the extract to column chromatography with hexane/ethyl acetate to produce at least a first fraction containing the terpene trilactone bilobalide, a second fraction elured after the first fraction containing the terpene trilactone GA and GB, and a third fraction eluted after the second fraction containing at least a preponderance of the terpene trilactones GC and GJ; and
- b) removing solvent under vacuum from the third fraction of step a) so as to produce a residue containing at least a preponderance of terpene trilactones GJ and GC;
- c) admixing the residue in DMF with K_2CO_3 and benzyl bromide, thereby producing a reaction mixture;
- d) quenching the reaction mixture with HCl, thereby producing a quenched product;
- extracting the quenched product with ethyl acetate, thereby producing a an extracted product; and
- f) subjecting the extracted product to column chromatography with hexane/ethyl acetate, thereby separating benzylated terpene trilactone GC from terpene trilactone GJ, thus providing terpene trilactone GJ in at

least 85% purity.

51. The process of claim 50, wherein the terpene trilactone GJ in step b) is provided in at least 90% purity.

- 52. The process of claim 50 or 51, further comprising recrystallizing the terpene trilactone GJ with ethanol/water, thereby providing terpene trilactone GJ in at least 98% purity.
- 53. A process for obtaining a terpene trilactone from Ginkgo biloba plant material or an extract of Ginkgo biloba comprising a mixture of terpene trilactones, the process comprising the steps of:
 - a) extracting the Ginkgo biloba plant material or the Ginkgo biloba extract with a first suitable solvent to produce a first residue and a first filtrate; extracting the first filtrate with a second suitable solvent to produce a second residue and a second filtrate;
 - b) extracting the second residue with a third suitable solvent to obtain terpene trilactone Ginkgolide B (GB) and a third filtrate;
 - c) subjecting the third filtrate to column chromatography with a first chromatography system to produce a first fraction containing terpene trilactone Ginkgolide A

(GA) and GB and a second fraction containing terpene trilactone Ginkgolide C (GC) and terpene trilactone Ginkgolide J (GJ);

 d) subjecting the second fraction to column chromatography with a second chromatography system to separate GC and GJ,

thereby obtaining terpene trilactone GJ isolated from other trilactones and from the Ginkgo biloba plant material or the extract of Ginkgo biloba.

- 54. The process of claim 53, wherein the first suitable solvent is ethyl acetate.
- 55. The process of any of claim 53-54, wherein the second suitable solvent is diethyl ether.
- 56. The process of any of claim 53-55, wherein the third suitable solvent is methanol.
- 57. The process of any of claim 53-56, wherein the first chromatography system comprises hexanes/acetone.
- 58. The process of any of claim 53-57, wherein the second chromatography system comprises diethyl ether/methanol.
- 59. The process of any of claim 53-58, wherein subjecting the third filtrate to chromatography comprises the steps of:

- a) concentrating the third filtrate to
- produce a third concentrated filtrate; and subjecting the third concentrated filtrate to column chromatography with hexanes/acetone to produce a first fraction containing a mixture of terpene trilactones Ginkgolide A (GA) and GB and a second fraction containing a mixture of terpene trilactones Ginkgolide C (GC) and Ginkgolide J (GJ).
- 60. The process of any of claim 53-59, wherein subjecting the fraction containing GC and GJ to chromatography comprises the steps of:
 - a) concentrating the fraction to produce a concentrated fraction;
 - b) subjecting the concentrated fraction to column chromatography with diethyl ether/methanol to produce a GC containing fraction and a GJ containing fraction;
 - c) removing the solvent from the GC containing fraction thereby obtaining GC; and
 - d) removing the solvent from the GJ containing fraction thereby obtaining GJ.
- 61. A process for obtaining a terpene trilactone from ginkgo biloba plant material or an extract of

Ginkgo biloba comprising a mixture of terpene trilactones, the process comprising the steps of:

- a) extracting the Ginkgo biloba plant material or the Ginkgo biloba extract with ethyl acetate to produce a first residue and a first filtrate;
- b) concentrating the first filtrate of step a) to produce a concentrated first filtrate; extracting the concentrated first filtrate with diethyl ether to produce a second residue and a second filtrate;
- c) admixing the second residue of step b) with methanol and filtering to produce a third filtrate and the terpene trilactone Ginkgolide B (GB);
- concentrating the third filtrate of step d) to produce a third concentrated filtrate; subjecting the filtrate concentrated to column chromatography with hexanes/acetone produce a first fraction containing a mixture of terpene trilactones Ginkgolide A (GA) and GB and a second fraction containing a mixture of terpene trilactones Ginkgolide C (GC) Ginkgolide J (GJ);
- e) removing the solvent from the second fraction of step d) to produce a third

residue; and subjecting the third residue to column chromatography with diethyl ether/methanol to produce third fraction containing GC and a fourth fraction containing GJ;

- f) removing the solvent from the fourth fraction of step e) to thereby obtain GJ.
- 62. A process for separating Ginkgolide J (GJ) from a mixture of terpene trilactones (TTLs), wherein the separation is achieved through non-covalent interaction with the mixture of TTLs.
- 63. A composition comprising ginkgolide...J. obtained by the process of any one of claims 50 to 62.